

EXECUTIVE SUMMARY

Utah Marblehead Lime Company

Utah Marblehead Lime Mine

ACT/045/003

Sections 22, 26, 27 and 35, Township 2 North, Range 9 West

Sections 1 and 2, Township 1 North, Range 9 West

Tooele County, Utah

EXECUTIVE SUMMARY
September 9, 1983

Mine Name: Utah Marblehead Lime I.D. No. ACT/045/003
Operator: Utah Marblehead Lime Company County: Tooele
300 West Washington Street New/Existing: Existing
Chicago, Illinois 60606 Mineral Ownership: Private
Telephone: (312) 263-4490 Surface Ownership: Private, BLM
Contact Person: Mr. Ernest E. Burgh Lease No.(s): N/A
Life of Mine: 50 years Permit Term: 1 yr (concurrently w/bond)
Legal Description: Secs. 22, 26-27, 35, T. 2 N. R. 9 W.; Secs 1-2, T. 1 N., R. 9 W.
Mineral(s) to be Mined: Limestone (see attached map)
Mining Methods: Contour-type Mining
Acres to be Disturbed: 159
Present Land Use: Quarrying and limestone processing, limited grazing & wildlife use
Postmining Land Use: Grazing and wildlife use
Variances from Reclamation Standards (Rule M-10) Granted: M-10(5), M-10(7), M-10(9)

Soils and Geology:

Soil Description: Brown to tan clay with some silty portions, texture fairly coarse.

pH: 8-9

Special Handling Problems: High sodium content: NH₄SO₄ to be applied prior to revegetation.

Geology Description: Quarrying takes place in the Lynch formation, which is pure, dolomitic limestone.

Hydrology:

Ground Water Description: Unknown

Surface Water Description: None

Water Monitoring Plan: None

Ecology:

Vegetation Type(s); Dominant Species: Sagebrush/Juniper/Cheatgrass

Percent Surrounding Vegetative Cover: 30 percent

Wildlife Concerns: None

Surface Facilities: Limestone processing equipment, including crushers, screens and rotary kilns; warehouses; office facilities; product shipped by rail.

Mining and Reclamation Plan Summary: See attachment.

Surety:

Amount: \$119,257.00 (see attached estimate)

Form: Bond

Renewable Term: One year

MINING AND RECLAMATION PLAN SUMMARY

During Operations:

1. Utah Marblehead Lime Company quarries dolomitic limestone from the Lynch formation.
2. A processing plant located 1,200 feet from the quarry crushes, screens and processes the limestone in a rotary kiln to produce ferritic and dead-burned dolomite.
3. Contour mining is conducted from the top of the mineable section, with benches of 45 foot height and 15 foot offsets developed as mining proceeds downward. The quarry floor corresponds roughly with the natural valley floor in the area.
4. Test plots based on recommendations from Division of Oil, Gas and Mining and the Bureau of Land Management will be implemented in the fall of 1985 to determine the best methods of reclamation for the quarry and plant sites.

After Operations:

1. All plant, crusher and quarry site structures will be removed. A water well will remain in place.
2. The plant site and quarry floor areas will be regraded and reclaimed, using methods indicated by test plot results.
3. The quarry walls will be left in a stable benched condition.
4. Major roads will be left in at the request of the Bureau of Land Management, for access and fire suppression.

DIVISION OF OIL, GAS, AND MINING

BOND ESTIMATE

OPERATOR: Marblehead Lime Company
MINE NAME: Utah Marblehead Lime
LOCATION: Lakeside Mountains
COUNTY: Tooele County, Utah
DATE: Revised July 13, 1983
 ACT/045/003

	Operation	Amount	Rate	Cost
A.	CLEAN-UP	D-7* Cat for 120 hrs	\$53/hr	\$ 6,360
	1. Removal of structures & equipment.	Crane for 160 hrs	\$75/hr	12,000
	2. Removal of trash & debris.	H-100 loader for 160 hrs	\$55/hr	8,800
	3. Leveling of ancillary facilities pads and access roads.	2 Dump Trucks for 160 hrs	\$25/hr ea	8,000
B.	REGRADEING & RECONTOURING	Trash--120 hrs (950 loader)	\$52/hr	6,240
	1. Earthwork including haulage and grading of spoils, waste and overburden.	60 hrs (D-7)	\$53/hr	3,180
	2. Recontouring of highwalls and excavations.	120 hrs (D-7)	\$53/hr	6,360
	3. Spreading of soil or surficial materials.			
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc.	159 ac--tractor, labor, fertilization	\$50/ac	7,950
	2. Seeding or planting.	159 ac--seed at 15#/ac (tractor, labor)	\$75/ac	11,925
D.	LABOR			
	1. Supervision.	160 hrs (supervision)	\$15/hr	2,400
	2. Labor exclusive of bulldozer time.	1,160 hrs (operator time)	\$25/hr	29,000
E.	SAFETY	Laborers--(2)	\$10/hr	3,200
	1. Erection of fences, portal coverings, etc.			
	2. Removal or neutralization of explosive or hazardous materials.			
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	\$1,000 for 3 yrs		3,000
	*Use rental rate blue book for construction equipment.	10% Contingency		\$108,415
				10,842
G.	OTHER Inflated Factors			\$119,257--1983 dollars
	1984 - \$131,183			
	1985 - \$144,301			
	1986 - \$158,731			

